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Listing of Claims

- 1-27. (Canceled)
- 28. (Previously Presented) A method for treating a tumor in a subject comprising administering to the subject by selectively introducing to the tumor an antisense nucleic acid having the sequence of a human Ku70 cDNA antisense orientation that specifically hybridizes to a nucleic acid encoding human Ku70 so as prevent expression thereof, wherein (a) antisense nucleic acid is administered in an amount sufficient to increase the sensitivity of the tumor to heat, chemical or radiation-induced DNA damage, and (b) the antisense nucleic acid is introduced into the subject via an adenoviral vector comprising expression vector encoding the antisense nucleic acid under the control of a heat shock promoter.
- 29. (Previously Presented) The method of claim 28, further comprising administering to the subject a DNA-damaging agent.
- 30. (Previously Presented) The method of claim 29, wherein the DNA-damaging agent is adriamycin, bleomycin or etoposide.

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- 31. (Previously Presented) The method of claim 29, wherein the DNA-damaging agent is ionizing radiation.
- 32. (Previously Presented) The method of claim 29, wherein the DNA-damaging agent induces double strand breaks.
- 33. (Previously Presented) A method for treating cancer in a subject comprising selectively introducing to the cancer in the subject an expression vector encoding an antisense nucleic acid having the sequence of a human Ku70 cDNA in the antisense orientation, under the control of a heat shock promoter, that specifically hybridizes to a nucleic acid encoding human Ku70 so as to prevent expression thereof, and inducing expression the antisense nucleic acid, wherein (a) antisense nucleic acid is expressed in the subject's cancer cells in an amount sufficient to increase the sensitivity of those cells to heat, chemical, or ionizing radiation-induced DNA damage, and (b) the expression vector is in the form of an adenovirus.
- 34. (Canceled).
- 35. (Previously Presented) The method of claim 33, further comprising directing heat, ionizing radiation, or chemotherapy at the site of cancer.
- 36. (Previously Presented) The method of claim 33, further

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comprising applying electric field energy to the site of cancer.

- 37. (Previously Presented) The method of claim 36, wherein the electric field energy comprises radiofrequency radiation.
- 38. (Previously Presented) The method of claim 33, further comprising implanting a reservoir of one or more chemotherapeutic agents near a site of cancer, wherein the chemotherapeutic agents are releasable over a period of time of at least eight hours.

39 & 40. (Canceled)